"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

POLAND

PANKIEWICZ, H. and MASLACZYNSKA, A. Department of Applied Pharmacy (Zaklad Farmacji Stosowanej), AM [Akademia Medyczna, Medical Academy] in Lodz (Director: Prof. Dr. F. MODRZEJEWSKI)

"Methods for Grinding Oleaginous Raw Materials and Other Factors, and Their Effect on Volatile Oil Content Determinations."

Warsaw, Farmacja Polska, Vol 19, No 13-14, 25 Jul 63, pp 274-277

Abstract: Authors compared volatile oil determinations (Deryng method) for a variety of plant matter when ground by hand in small porcelain mortar and pestle and small electric mill. They tabulate their findings in 3 tables, and draw their conclusions that manner of grinding is of importance to results, that small hermetically sealed electric mill is much superior to mortar and pestle procedure, and that some of the directions in FP [Farmakopea Polska, Polish Pharmacopoeia] III should be revised for the next edition. There are references to 9 sources (3 German, 6 Polish), and to the Soviet, British, and Czech Pharmacopoeias.
1/1

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

Maslak, M.F.

MASLAK, M.F.; DYACHENKO, T.S.

More machines for the cultivation of vegetables. Mekh. sil'. hosp. 8 no.9:18 S '57. (MIRA 10:9)

1. Sekretar partorganizatsii kolgospu "Khvilya revolyutsii," Geniches'kogo rayonu, Khersons'koy oblasti (for Maslak). 2. Agronom kolgospu "Khvilya revolyutsii" (for Dyachenko).
(Farm mechanization) (Vegetable gardening)

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MASLAK, M.F. (Dnepropetrovsk); RYUMSHIN, N.A., inzh. (Dnepropetrovsk)

Automation of welding operations. Zhel.dor.transp. 45 no.10: 67-69 O '63. (MIRA 16:11)

1. Nachal'nik Dnepropetrovskogo parovozoremontnogo zavoda (for Maslak).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

Maslak, V.A.

MASLAK, V.A.

Vascular reactions during surgical operations and various methods of anesthesia. Vrach.delo no.9:959-963 S '57. (MLRA 10:9)

1. Fakul'tetskaya khirurgicheskaya klinika (zav. - prof. Ya.M. Voloshin) pediatricheskogo i sanitarno-gigiyenicheskogo fakul'tetov Odesskogo meditsinskogo instituta
(OPERATIONS, SURGICAL) (ANESTHESIA) (BLOOD PRESSURE)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

ACC NR: AM7003443 Monograph UR/

Smirnov, Nikolay Konstantinovich; Maksimov, Vitaliy Ivanovich; Zhukov, Nikolay Nikolayevich; Maslak, Viktor Gavrilovich

Control of fires and water on ships (Bor'ba s pozharami i vodoy na korablyakh) Moscow, Voyenizdat M-va obor. SSSR, 66. 0183 p. illus., biblio. 8,500 copies printed

TOPIC TAGS: naval fire control system, fire control equipment, ship navigation, navigation training

PURPOSE AND COVERAGE: The first part of the book discusses the peculiarities and specific characteristics of shipboard fires, of firefighting methods, and equipment, and describes the installation and principles of operation of fire-fighting facilities. The second part of the book presents examples of measures taken to control the flow of water into a ship and practical recommendations on the use of emergency equipment and instruments to seal hulls, and to strengthen bulkheads, decks, bridges and watertight covers. Data on stationary and mobile water-emptying equipment are also given. The book is intended for a

Card 1/3 UDC: 628.74:623.82+629.12:532.3.072

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ACC NR: AM7003443

variety of readers, but mainly for naval personnel, and for the transport, river, and fishing fleets, as well as teachers and students at navigation schools.

TABLE OF CONTENT [abridged]:

Foreword -- 3

Section 1

Firefighting on naval and other ships

Ch. 1. Shipboard fires, their peculiarities and means of extinguishing them -- 9
Ch. 2. Extinguishing fires with water -- 21
Ch. 3. Extinguishing fires with foam -- 39
Ch. 4. Extinguishing fires with steam and gases -- 66
Ch. 5. Firefighting equipment and means of protection -- 83
Ch. 6. Peculiarities of firefighting on naval and other vessels -- 88

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Section 2.

Facilities and Methods of water control on ships

Ch. 7. Repair of hull damage -- 107
Ch. 8. Reinforcement of damaged watertight hull structures -- 135
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Ch. 10. Measures to prevent water from entering the ship's hull -- 175

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SUB CODE: 13, 19, 20/ SUBM DATE: 29Dec65/ ORIG REF: 023

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

KURBATOV, V.S.; MAL'TSEV, E.I.; MASLAKOV, A.I.; STASHKOV, G.M.; CHUVILO, I.V.; SHKLOVSKAYA, A.I.

Determining the electron energy in the range of 20 to 250 Mev. in a xenon bubble chamber. Prib. i tekh.eksp. 10 no.5:61-63 S-O '65. (MIRA 19:1)

1. Ob"yedinennyy institut yadernykh issledovaniy, Dubna. Submitted July 21, 1964.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, A. P., INZH.

NAUCHNOISSLEDOVATEL'SKIY INSTITUT PO STROITEL'STVU MINISTERSTVA STROITEL'STVA PREDPRIYATIY MACHINOSTROYENIYA.

SVOYSTVA NIZKOLEGIROVANNYKH STALEY, PRIMENYAYEMYKH V STROITEL'STVE. PAGE 33

SO: SBORNIK ANNOTATSIY NAUCHNO-ISSLEDOVATEL'SKIKH RABOT PO STROITEL'STVU, MOSCOW, 1951

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, A., inzhener; ASINOVSKIY, M., inzhener

Producing prestressed reinforced panels. Stroitel' no.5:4-5 My '57.
(Concrete slabs) (MLRA 10:6)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

Maslakov, A.

MASLAKOV, A., inzh.

Stand for strengthening reinforcing bars. Stroitel' no.3:22 Mr '58. (MIRA 11:2)
(Prestressed concrete)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, A.

Trust enterprises are operating with semiprocessed products.
Obshchestv.pit. no.11:3 N '59. (MIRA 13:3)

1. Direktor tresta stolovykh, g.Uzhgorod.
(Uzhgorod--Restaurants, lunchrooms, etc.)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, D. A.

Dissertation: "Some Clinical-Morphological Changes in Experimental Nephritis." Cand Med Sci, First Moscow Order of Lenin Medical Inst, 28 Aug 54. (Vechernyaya Moskva, Moscow, 5 Aug 54)

SO: SUM 393, 28 Feb 1955

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, D.A. (Vitbesk)

Mechanism of action of cytotoxins. Arkh.pat. 18 no.6:55-57 '56.
(MLRA 9:12)

1. Iz kafedry patologicheskoy fiziologii (zav. - dotsent G.A.Medvedeva) Vitebskogo meditsinskogo instituta.

(IMMUNE SERUMS, effects,
cytotoxic serums, mechanism of action (Rus))

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, D.A.

MASLAKOV, D.A. (Vitebsk)

Simple method for collecting urine in dogs in chronic experiments.
Pat.fiziol. i eksp.terap. 1 no.4:63 Jl-Ag '57. (MIRA 10:11)

1. Iz kafedry patologicheskoy fiziologii (zav. - dotsent G.A.Medvedeva) Vitebskogo meditsinskogo instituta.
(URINE, collection in prolonged exper. (Rus))

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MALAN'IN, M.I.; MALAN'IN, R.M.; MASLAKOV, F.G.; PODKOSOV, L.G., nauchnyy red.; ANOKHINA, L.A., red.; SOKOLOVSKAYA, Ye.Ya., red. izd-va; IYERUSALIMSKAYA, Ye., tekhn.red.

[Separation of concentrates in electric separators] Razdelenie shlikhov na elektricheskikh separatorakh. Moskva, Gosgeoltekhizdat, 1963. 28 p. (MIRA 16:7)
(Separators (Machines))

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, D.

"Problems of Fuel Balance in the USSR," Planovoye Khozyaystvo, No.3, pp 40-52, 1955

Translation M-867, 18 Nov 55

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

11(1) PHASE I BOOK EXPLOITATION SOV/2187

Maslakov, D.I.

Planirovaniye toplivnoy promyshlennosti i metodika sostavleniya toplivnogo balansa SSSR (Planning in the Fuel Industry and Methods of Computing the Fuel Balance of the USSR) Moscow, Gosplanizdat, 1958. 62 p. (Series: V pomoshch' ekonomistu i planoviku) 7,000 copies printed.

Ed.: Ye.I. Komarov; Tech. Ed.: Ye.S. Gerasimova.

PURPOSE: This booklet is intended for economists and industrial planners, particularly those concerned with the production, allocation, and consumption of mineral fuels.

COVERAGE: This booklet describes the need for planning and accounting in the mineral fuels industry. A mineral fuels budget plan is, the author contends, essential to overall planning in the USSR. After defining the physical properties of the various mineral fuels, the author presents comparative tables showing the location and output of the leading coal and petroleum centers. He provides samples of forms to be used in mineral fuels accounting by consumer industries. No personalities are mentioned. No references are given.

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Planning in the Fuel Industry (Cont.) SOV/2187

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Method for computing fuel resources	25
Method for preparing a coal balance	26
Planning in the coal industry	35
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Planning in the oil-shale industry	60

AVAILABLE: Library of Congress (HD 9555.R8M35)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, Dmitriy Ivanovich; MEDVEDEV, M.M., red.; PONOMAREVA, A.A., tekhn.red.

[Fuel supply of the U.S.S.R.] Toplivnyi balans SSSR. Moskva, Gosplanizdat, 1960. 193 p. (MIRA 13:10)
(Fuel)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASIAKOV, D.I.

Fuel balance and heat engineering in the U.S.S.R.
Teploenergetika no.4:5-11 Ap '60. (MIRA 13:8)

1. Gosplan SSSR.
(Heat engineering)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, D.I.

Fuel and power resources of the nation. Teploenergetika 8 no.3: 3-7 Mr. '61. (MIRA 14:9)

1. Gosplan SSSR.
(Fuel) (Electric power)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, D.I.

Prospective fuel balance in power engineering for the next twenty years. Teploenergetika 9 no.1:3-7 Ja '62.
(MIRA 14:12)

1. Gosplan SSSR.
(Heating research)
(Power resources)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, D.I., ekonomist

Present-day fuel resources of the country. Teploenergetika 12 no.3:2-6 Mr '65. (MIRA 18:6)

1. Sovet narodnogo khozyaystva SSSR.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, M.D., inzh. (Leningrad)

Optimum choice of tolerances for the elements of linear electrical networks. Elektrichestvo no.4:76-80 Ap '63. (MIRA 16:5)
(Electric networks--Quality control)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, M.D.

Optimum selection of allowances for linear electric circuits designed of elements with discrete limit values of allowances. [Trudy] Inst. mash., STMP no.18:17-25 '64. (MIRA 18:4)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, V.

Finance - Leningrad

Finance organs of Leningrad and the fight to fulfill the financial plan. Sov. fin. No. 1, 1952.

Monthly List of Russian Accessions. Livrary of Congress, March 1952. Unclassified.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, V.

Financial organs and the Leningrad municipal economy. Fin.SSSR 17 no.2:48-53 F '56. (MLRA 9:6)

1.Zaveduyushchiy Leningradskim gosudarstvennym finansovym otdelom.
(Leningrad--Finance)

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MASLAKOV, V.

The role of local finance organs must be increased Fin. SSSR 18 no.5:44-49 My '57. (MLRA 10:6)

1. Zaveduyushchiy Leningrdskim gorodskim finansovym otdelom.
(Leningrad--Finance)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, V.

All forces should be devoted to fulfilling the great plan. Fin. SSSR 20 no.1:32-38 Ja '59. (MIRA 12:2)

1. Zaveduyushchiy Leningradskim gorfinotdelom.
(Leningrad--Economic policy)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, Vasiliy Petrovich; FILATOV, Nikolay Leonidovich; BARMIN, Viktor Vasil'yevich; PETROV, P., red.; FILIPPOVA, E., red.; TELEGINA, T., tekhn.red.

[Finances of communal housing and services] Finansy zhilishchnogo i kommunal'nogo khoziaistva. Moskva, Gosfinizdat, 1960. 209 p. (MIRA 14:3)
(Housing--Finance) (Municipal services--Finance)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, Ye. A.

"The Experience With Setting Up Surgical Aid on One of the Capital Ships", Military-Medical Journal, No. 8, p 76, 1955.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

17(8) SOV/177-58-4-25/32

AUTHOR: Maslakov, Ye.A., Senior Lieutenant of the Medical Corps

TITLE: An Ampule-Holder for Blood Transfusion on Ships (Ampuloderzhatel' dlya perelivaniya krovi na korablyakh)

PERIODICAL: Voyenno-meditsinskiy zhurnal 1958, Nr 4, p 87 (USSR)

ABSTRACT: The author describes a simple ampule-holder, designed by him and his assistants, for blood transfusion on ships. There are 5 diagrams.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, Ye.A. (Leningrad, D-104, ul. Mayakovskogo, d.18, kv.31)

Acute dilatation of the stomach not diagnosed preoperatively.
Vest.khir. no.5:101-102 '62. (MIRA 15:11)

1. Iz kliniki voyenno-morskoy khirurgii (nach. - prof. A.A. Bocharov) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.
(STOMACH—HYPERTHROPHY AND DILATATION)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, Ye.A.

Unusual mechanism of the prolonged compression syndrome. Vest. khir. 92 no.4:129-130 Ap '64 (MIRA 18:1)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOV, Ye.L.

Some factors of the development of young pine growths in clear-cuttings of the central taiga subzone of the Trans-Ural Plain. Trudy Inst. biol. UFAN SSSR no. 43: 263-269 '65. (MIRA 19:1)

1. Ural'skaya lesnaya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta lesovodstva i mekhanizatsii lesnogo khozyaystva.

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39355
S/563/61/000/217/012/012
D234/D308

11 9700

AUTHOR: Maslakov, Yu. V.

TITLE: Design of an air bearing

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy. no. 217. 1961. Tekhnicheskaya gidromekhanika, 156-167

TEXT: The author gives an analytical solution of the isothermal problem of gas dynamic lubrication of an infinitely long cylindrical bearing. The equation of pressure distribution is solved in series form in powers of $(1 - \lambda^2)^{\frac{3}{2}}$ and in powers of λ -- λ being the relative eccentricity of the position of the cylinders. The supporting force and resistance moment are determined. The pressure in the minimum section of the lubrication gap P_0 must be eliminated from the solution; the method of eliminating

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it is discussed. The solution is found to be valid for the whole range of values of λ and for values of p_0 at least between 0 and 5. It is also found that, for p_0 not larger than 2, the characteristics of the bearings can be calculated from the formulas of the limiting case $v = \omega R \longrightarrow \infty$ obtained by S. S. Sheynberg. There are 8 figures.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, M. (g. Moskva).

Programs for extracurricular and school clubs. Fiz. v shkole 17 no.3:77-82 My-Je '57. (MLRA 10:6)
(Physics--Study and teaching)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

AUTHOR: Maslakova, M. 47-58-2-27/30

TITLE: New Books and Articles on Physics and Astronomy (Novyye knigi i stat'i po fizike i astronomii)

PERIODICAL: Fizika v Shkole, 1958, # 2, pp 89-92 (USSR)

ABSTRACT: The list contains 44 new books with short descriptions of each. The list also contains 42 references to articles published in different periodicals for November-December 1957. The references are categorized as follows: General questions of science and technics - 7 articles; History of physics and technics - 3 articles; Astronomy, Astro- and Geophysics; Engineering - 6 articles; Nuclear physics and nuclear energy - 6 articles; electricity and radio - 4 articles.

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Card 1/1

1. Physics-Study and teaching 2. Physics-Textbooks
3. Astronomy-Study and teaching 4. Astronomy-Textbooks

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, M.

AUTHOR: Maslakova, M. (Moscow) 47-58-3-25/27

TITLE: New Books and Articles on Physics and Astronomy (Novyye knigi i stat'i po fizike i astronomii)

PERIODICAL: Fizika v Shkole, 1958, Nr 3, pp 88-91 (USSR)

ABSTRACT: Twenty eight books are listed with short description of each. A list of 47 references of Soviet articles contained in Soviet physics and astronomy publications for January and February 1958 are categorized as follows: General scientific and technical questions - 6 articles; philosophical questions in physics - 1 article; astronomy, astro- and geophysics - 9 articles; methodology - 13 articles; engineering - 9 articles; atomic physics, atomic power - 6 articles; electricity and radio engineering - 3 articles.

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Card 1/1 1. Physics-Study and teaching 2. Astronomy-Study and teaching 3. Textbooks-Physics-USSR 4. Textbooks-Astronomy-USSR

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

AUTHOR: Maslakova, M. (Moscow) SOV-47-58-5-23/28

TITLE: New Books and Articles on Physics and Astronomy (Novyye knigi i stat'i po fizike i astronomii)

PERIODICAL: Fizika v shkole, 1958, Nr 5, pp 83-85 (USSR)

ABSTRACT: The article lists the following number of books or articles with short descriptions: scientific literature and training aids - 6 books, methodical literature - 3 books, books for students - 3, engineering - 4 books, popular-scientific literature - 8 books. A total of 25 articles which have appeared in various journals during May-June 1958 on science, engineering, philosophy, history of physics and engineering, automation and telemechanics, astronomy, and atomic energy are also listed.

1. Literature 2. Physics--Applications 3. Astronomy--Applications

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

AUTHOR: Maslakova, M.P. (Moscow) SOV-47-58-6-24/28

TITLE: New Books and Articles on Physics and Astronomy (Novyye knigi i stat'i po fizike i astronomii)

PERIODICAL: Fizika v shkole, 1958, Nr 6, pp 79 - 82 (USSR)

ABSTRACT: This list contains 73 references to Soviet books and magazine articles including 7 translations from English, French, German and Chinese. The references are categorized as follows: Scientific literature and teaching aids in physics and astronomy for vuzes - 3 books; literature on methods of instructions - 4 books; students books - 4; history of physics and engineering - 2 books; scientific-popular literature - 17 books; articles published in journals during July - August 1958 - general questions in science and engineering - 2; philosophical questions of physics - 4; teaching methods - 8; history of physics and engineering - 2; automation and telemechanics - 1; engineering - 10; nuclear physics and atomic energy - 4; astronomy, astro and geophysics - 12 articles.

1. Physics--Bibliography 2. Astronomy--Bibliography

Card 1/1

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, M.P. (Moskva)

New books and articles on physics and astronomy. Fiz. v shkole 19 no.1:118-121 Ja-F '59. (MIRA 12:3)
(Bibliography--Physics)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MURATOV, M. V.; MASLAKOVA, N. I.

Carpathian Mountains-Geology, Stratigraphic

Basic stages of the geological history of the Eastern Carpathians. Biul. MOIP. Otd. geol. 27 no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MURATOV, M. V.: MASLAKOVA, N. I.

Carpathian Mountains-Geology, Stratigraphic

Basic stages of the geological history of the Eastern Carpathians. Biul. MOIP. Otd. geol. 27 no. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

USSR/Geophysics - Carpathians May/Jun 52

"Fundamental Stages in the Geological History of the Eastern Carpathians," M. V. Muratov, N. I. Maslakova

"Byul Mosk Obshch Ispytat Prirody, Otdel Geol" Vol 27, No 3, pp 3-26

On the basis of an analysis of facies, thicknesses, and conditions governing occurrence of deposits, authors clarify the history of formation of fundamental structural elements of the Eastern Carpathians. They established that the Flysh flexure

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MASLAKOVA, N. I.

developed from the beginning of the later Cretaceous epoch to the beginning of the Miocene. They state that the interior anticlinal zone also emerged at the beginning of the Cretaceous. They note that the exterior anticlinal zone is only in the Turonian. The author states that the border Pre-Carpathian depression developed in the main during the course of the Miocene epoch, by gradually expanding and heaving to the side of the Russian platform.

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MURATOV,M.V.; MASLAKOVA,N.I.

The Salgir graben in mountainous Crimea. Trudy MGRI no.28:92-101 '55. (MLRA 8:6)

(Salgir Valley--Geology, Stratigraphic)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

Division of Eocene sediments in the western Carpathians based on small Foraminifera. Geol. sbor. [Lvov] no.4:55-63 '57.
(MIRA 13:2)

1.Moskovskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gosuniversitet imeni M.V. Lomonosova.
(Carpathian Mountains--Geology, Stratigraphic)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

AUTHOR: Maslakova, N.I. and Kamenetskiy, A.Ye. 11-10-11/23

TITLE: New Data on Upper Cretaceous Deposits of the Crimean Steppe (Novyye dannyye o verkhnemelovykh otlozheniyakh stepnogo Kryma)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957, # 10, p 97-99 (USSR)

ABSTRACT: As a result of extensive studies of drill holes, more complete data were obtained on Upper Cretaceous deposits of the western areas of the Crimean steppe. The Upper Cretaceous deposits consist mainly of layers of light greyish marls, limestones and clays, whereby the thickness of the layers varies from 25 to 600 m. Based on studies of small foraminifera, analogy of all strata of the Upper Cretaceous period was determined. The author examined the deposits of various geologic strata, such as the Turonian and Campanian stages, the Santonian substage as well as the Maastricht and Danish deposits. The available data disclose that during the Upper Cretaceous period the examined territory presents an area of uneven accumulation of sediments. The area of the present Tarkhankutskiy peninsula which has a thick, uninterrupted Upper Cretaceous strata experienced a most intense bending.

Card 1/2 There are 2 references, both Slavic (Russian).

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

New Data on Upper Cretaceous Deposits of the Crimean Steppe 11-10-11/23

ASSOCIATION: Moscow State University imeni M.V. Lomonosov; All-Union Scientific Research Oil Institute, Moscow (Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova, Vsesoyuznyy neftyanoy nauchno-issledovatel'skiy institut, Moskva)

SUBMITTED: 3 September 1956

AVAILABLE: Library of Congress

Card 2/2

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

More exact representation of upper Cretaceous sections of Tarkhankut and Dzhankoy key holes in the Crimea. Nauch.dokl.vys.shkoly; geol.-geog.nauki no.1:181-183 '58. (MIRA 12:2)

1. Moskovskiy universitet geologicheskiy fakul'tet, kafedra paleontologii.

(Crimea--Geology, Stratigraphic)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

AUTHORS: Maslakova, N.I., Naydin, D.P. 11-58-3-9/14

TITLE: The Senoman Deposits of the Crimean Mountains (O senomanskikh otlozheniyakh Gornogo Kryma)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, # 3, pp 108-110 (USSR)

ABSTRACT: This short information deals with deposits in the Upper Crimea of the Senoman Stage which consist of different sediments, mainly of clay and sand marls. The authors enumerate various deposits, give their Latin denominations and classify them according to their ages.
There is 1 figure.

SUBMITTED: September 3, 1956.

AVAILABLE: Library of Congress

Card 1/1

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

New data on Coniacian sediments in the Crimean mountains. Nauch. dokl.vys.shkoly; geol.-nauki no.4:151-153 '58.(MIRA 12:6)

1. Moskovskiy universitet, geologicheskiy fakul'tet, kafedra paleontologii.
(Crimea--Geology, Stratigraphic)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

AUTHOR: Maslakova, N.I., and Naydin, D.P. 11-1-7/29

TITLE: Deposits of the Santonian Substage of South-West Crimea (O santonskikh otlozheniyakh v yugo-zapadnom Krymu)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, V-23 # 1, pp 75-77 (USSR)

ABSTRACT: The author enumerates the 6 different layers of the Santonian substage at the Bakhchisaray, Kache, Bodrake and Bel'-beke river areas. He describes the fossiles found in these layers, which have a total thickness of 65 m.
There are 3 Russian, 1 German and 1 French references.

SUBMITTED: November 3, 1956

AVAILABLE: Library of Congress

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APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MOSKVIN, M.M.; MASLAKOVA, N.I.; DOBROV, S.A.; PAVLOVA, M.M.; NAYDIN, D.P.; SHIMANSKIY, V.N.; ASTAF'YEVA, K.A.; POSLAVSKAYA, N.A.. Primal uchastiye CHEKHOVICH, M.V.. SHOROKHOVA, L.I., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Atlas of upper Cretaceous fauna of the Northern Caucasus and the Crimea] Atlas verkhnemelovoi fauny Severnogo Kavkaza i Kryma. Pod red. M.M.Moskvina. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 499 p. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnykh gazov. 2. Sotrudniki kafedry istoricheskoy geologii i paleontologii Geologicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta (for all except Shorokhova, Mukhina).
(Caucasus, Northern--Paleontology, Stratigraphic)
(Crimea--Paleontology, Stratigraphic)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

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MASLAKOVA, N.I., SLAVIN, V.I.; AFANAS'YEV, S.L.

Age of black argillites in Svalyava District, Transcarpathia.
Sov.geol. 2 no.4:145-146 Ap '59. (MIRA 12:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Svalyava District--Argillite)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

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MASLAKOVA, N.I.

Stratigraphic scheme of upper Cretaceous deposits in the Crimea. Vest.Mosk.un.Ser.biol., pochv., geol., geog. 14 no.1:109-113 '59. (MIRA 12:9)

1. Moskovskiy gosudarstvennyy universitet, Kafedra paleontologii. (Crimea--Geology, Stratigraphic)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

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MASLAKOVA, N.I.

Upper Cretaceous sediments in the Crimean Mountains. Biul.MOIP. Otd.geol. 34 no.4:67-76 Jl-Ag '59. (MIRA 13:8)
(Crimean Mountains--Geology, Structural)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

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VYALOV, O.S. (SSSR); MASLOV, V.P. (SSSR); WDOWIARZ, St. (Polska); OLEWICZ, Z.R. (Polska); NOVAK, V. (Pol'sha); SLAVIN, V.I. (SSSR) MASLAKOVA, N.I. (SSSR); VYALOV, O.S. (SSSR); EBERZIN, A.G. (SSSR) BONDARCHUK, V.G. (SSSR)

Participation in discussions. Mat.Konf.-Balk.assots. no.3:157-179 '60. (MIRA 14:12)
(Carpathian Mountains--Geology)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

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AFANAS'YEV, S.L.; MASLAKOVA, N.I.

New data on the correlation of the upper Senonian in the Novorossiysk region. Izv. vys. ucheb. zav.; geol. i razv. 3 no.5:50-55 My '60. (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Novorossiysk region—Geology, Stratigraphic)

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MASLAKOVA, N.I.

Systematics and phylogeny of the foraminifer genera Thalmanninella and Rotalipora. Biul. MOIP. Otd. geol. 35 no. 3:173-174 My-Je '60. (MIRA 14:2)

(Foraminifera, Fossil)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

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MASLAKOVA, N.I.

Systematics and phylogeny of the genera Thalmanninella and Rotalipora (Foraminifera). Paleont.zhur. no.1:50-55 '61. (MIRA 14:8)

1. Moskovskiy gosudarstvennyy universitet.
(Foraminifera, Fossil)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

Division of upper Cretaceous sediments of the Crimea and Russian Platform, based on Foraminifera. Trudy VNIGNI no.29: 89-91 vol.3 '61. (MIRA 14:9)
(Russian Platform—Foraminifera, Fossil)
(Crimea—Foraminifera, Fossil)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

Foraminifera of Upper Cretaceous sediments in Daghestan. [Uch. zap.] Mosk.un. no.192:58-88 '61. (MIRA 15:7)
(Daghestan--Foraminifera, Fossil)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

Wall structure of the shell in Globotruncana. Biul. MOIP. Otd.geol. 37 no.3:133 My-Je '62. (MIRA 15:10)
(Foraminifera, Fossil)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

Volume and systematic position of the genus Hedbergella (foraminifers). Biul. MOIP Otd. geol. 37 no.6:129-130 N-D '62. (MIRA 16:8)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

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MASLAKOVA, N.I.

Taxonomy of the genus Hedbergella. Paleont. zhur. no.4:112-116 '63. (MIRA 17:1)

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MASLAKOVA, N.I.

Wall structure of the shell of Globotruncanidae. Vop. mikropaleont. no.7:138-149 '63. (MIRA 17:10)

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MASLAKOVA, N.I.

Taxonomy and phylogeny of Globotruncanidae. Vop. mikropaleont. no.8:102-117 '64. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet.

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ZONENSHAYN, L.P.; BERTEL'S-USPENSKAYA, I.A.; SAFRONOV, V.S.; NEYMAN, V.B.; GENDLER, V.Ye.; CHURIKOV, V.S.; YEREMIN, N.I.; KOGAN, B.S.; YAKOVLEVA, M.N.; LANGE, O.K.; KABANOV, G.K.; KUZNETSOVA, K.I.; SINITSYNA, I.N.; SMIRNOVA, T.N.; VENKATACHALAPATI, V.; MASLAKOVA, N.I.; BELOUSOVA, Z.D.; YAKUBOVSKAYA, T.A.; YURINA, A.L.; RYBAKOVA, N.O.; MOROZOVA, V.G.; BARASH, M.S.; FONAREV, V.I.; NIKONOV, A.A.

Activity of the Geological Sections of the Moscow Naturalists' Society. Biul. MOIP. Otd. geol. 39 no.6:127-151 N-D '64. (MIRA 18:3)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.; CHERNOV, V.G.

New data on the Turonian deposits in the Rakhovo and Moramaros Massifs of the Carpathians. Izv.vys.ucheb.zav.; geol. i razv. 8 no.1:142-143 Ja '65. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet.

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

New data on the stratigraphy of Upper Cretaceous sediments in the Chernogorsk zone of the Eastern Carpathians. Vest.Mosk.un. Ser.4: Geol. 20 no.2:3-20 Mr-Ap '65. (MIRA 18:5)

1. Kafedra paleontologii Moskovskogo universiteta.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVA, N.I.

Composition and age of the Burkutsk series in the Eastern Carpathians. Vest. Mosk. un. Ser. 4: Geol. 20 no.6:31-35 N-D '65 (MIRA 19:1)

1. Kafedra paleontologii Moskovskogo gosudarstvennogo universiteta. Submitted October 29, 1964.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

BEN'YASH, Ye.Ya.; MASLAKOVA, T.G.

Solubility of lead chloride in the system $PbCl_2 - CaCl_2 - ZnCl_2 - H_2O$. Zhur. prikl. khim. 36 no.10: 2297-2300 O '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

BENYASH, Ye.Ya.; MASLAKOVA, T.G.

Potentiometric stability study of zinc, cadmium, and lead chloride complexes in calcium chloride solutions. Zhur. neorg. khim. 9 no.12: 2731-2733 D '64.

(MIRA 18:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy gorno-metallurgicheskiy institut tsvetnykh metallov.

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

ROMANENKO, V.I.; PODOPRIGORA, M.G.; MASLAKOVA, Z.I.

Automation of the rectification process of turpentine. Gidroliz. i lesokhim. prom. 14 no.7:10-11 '61. (MIRA 14:11)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektnyy institut lesokhimicheskoy promyshlennosti (for Romanenko, Podoprigora).
2. Gor'kovskiy kanifol'no-terpentinnyy zavod (for Maslakova).
(Turpentine industry—Equipment and supplies)
(Automatic control)

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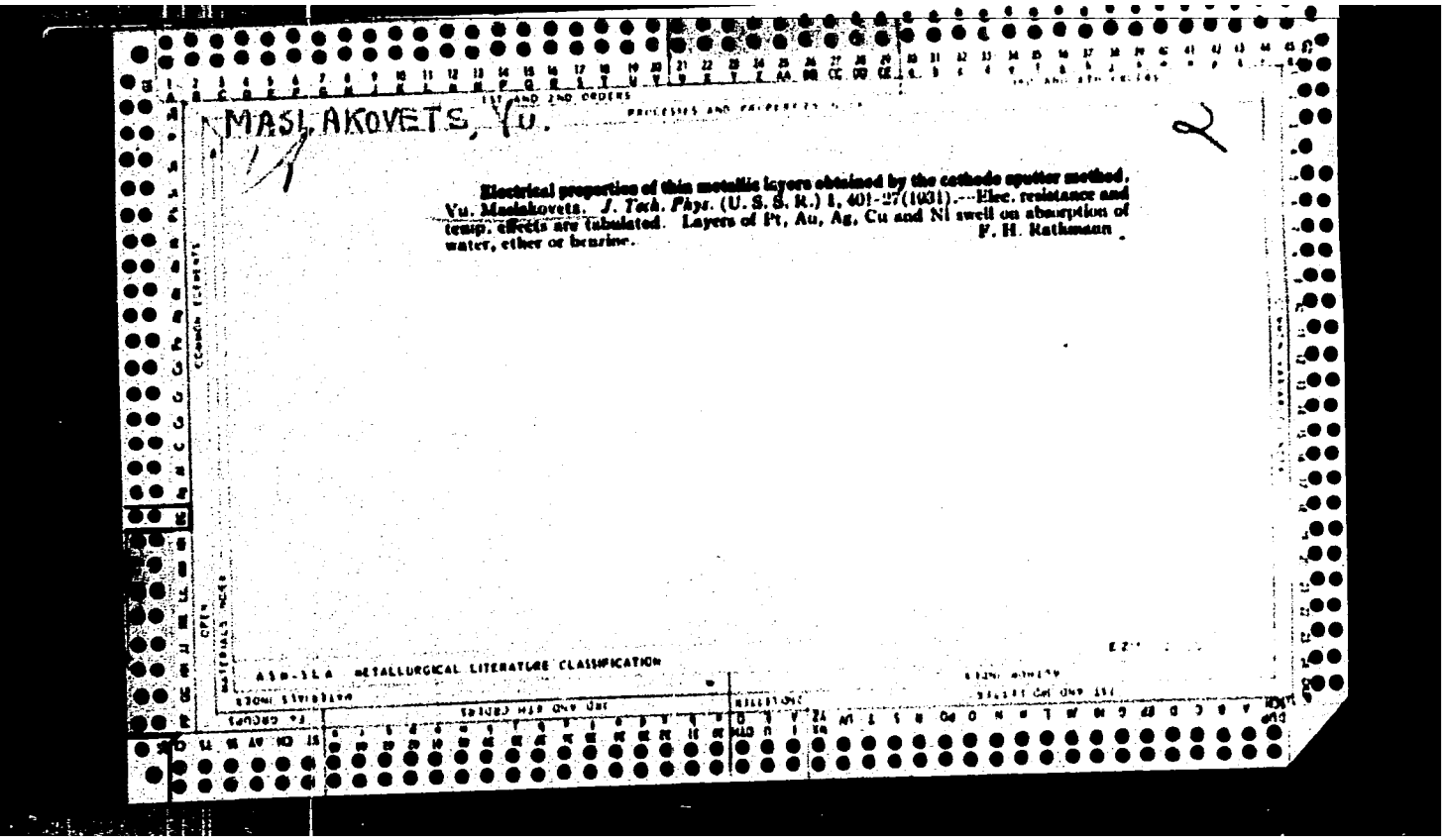

MASLAKOVETS, Yu.

Electrical properties of thin metallic layers obtained by the cathode sputter method. Yu. Maslakovets. *J. Tech. Phys.* (U. S. S. R.) 1, 401-27(1931).—Elec. resistance and temp. effects are tabulated. Layers of Pt, Au, Ag, Cu and Ni swell on absorption of water, ether or benzine. P. H. Rathmann

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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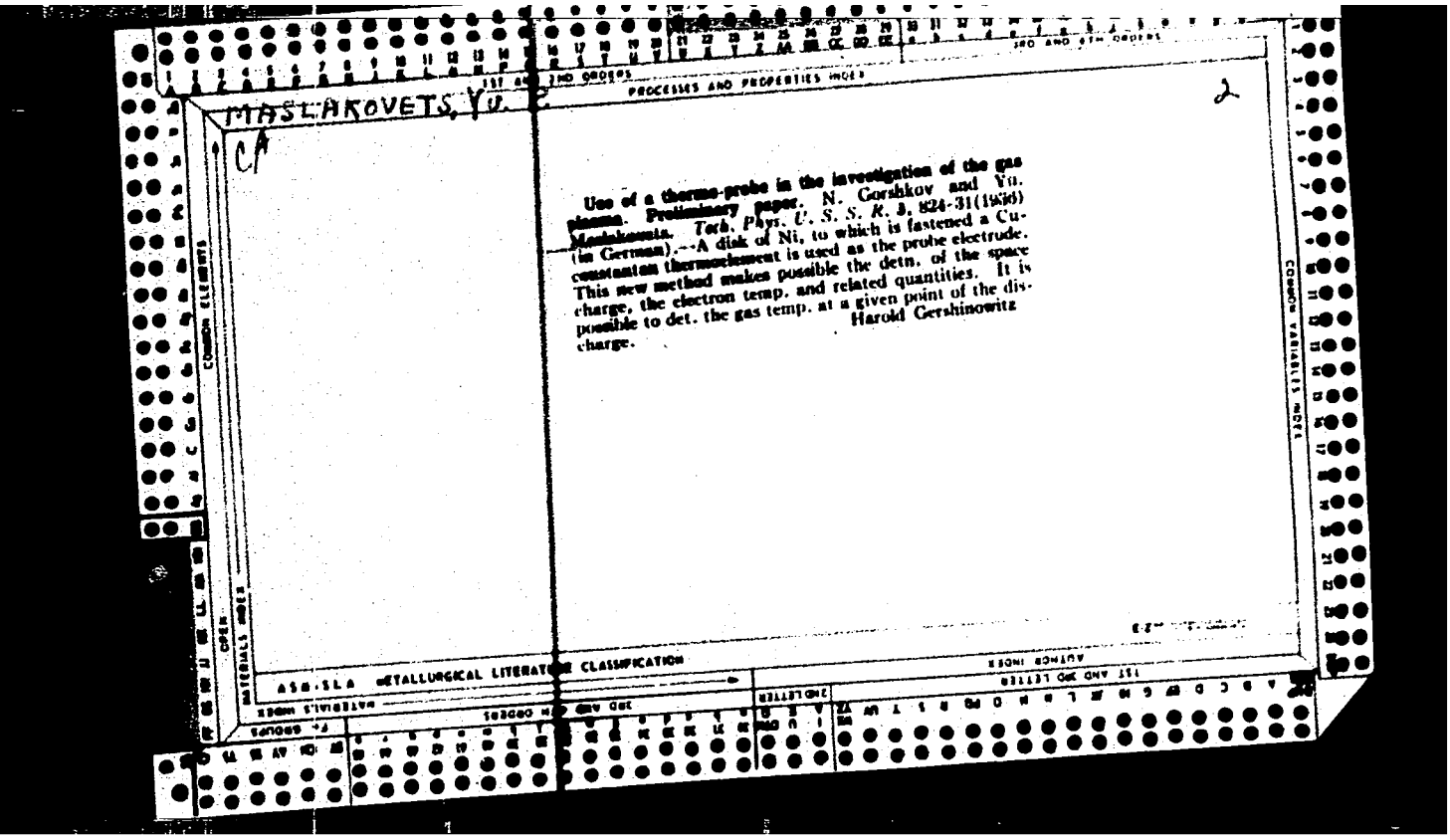

MASLAKOVETS, Yu.

CA

2

Use of a therme-probe in the investigation of the gas plasma. Preliminary paper. N. Gorshkov and Yu. Maslakovets. *Zurk. Phys. U. S. S. R.* 3, 824-31 (1936) (in German).--A disk of Ni, to which is fastened a Cu-constantan thermoelement is used as the probe electrode. This new method makes possible the detn. of the space charge, the electron temp. and related quantities. It is possible to det. the gas temp. at a given point of the discharge.

Harold Gershinowitz

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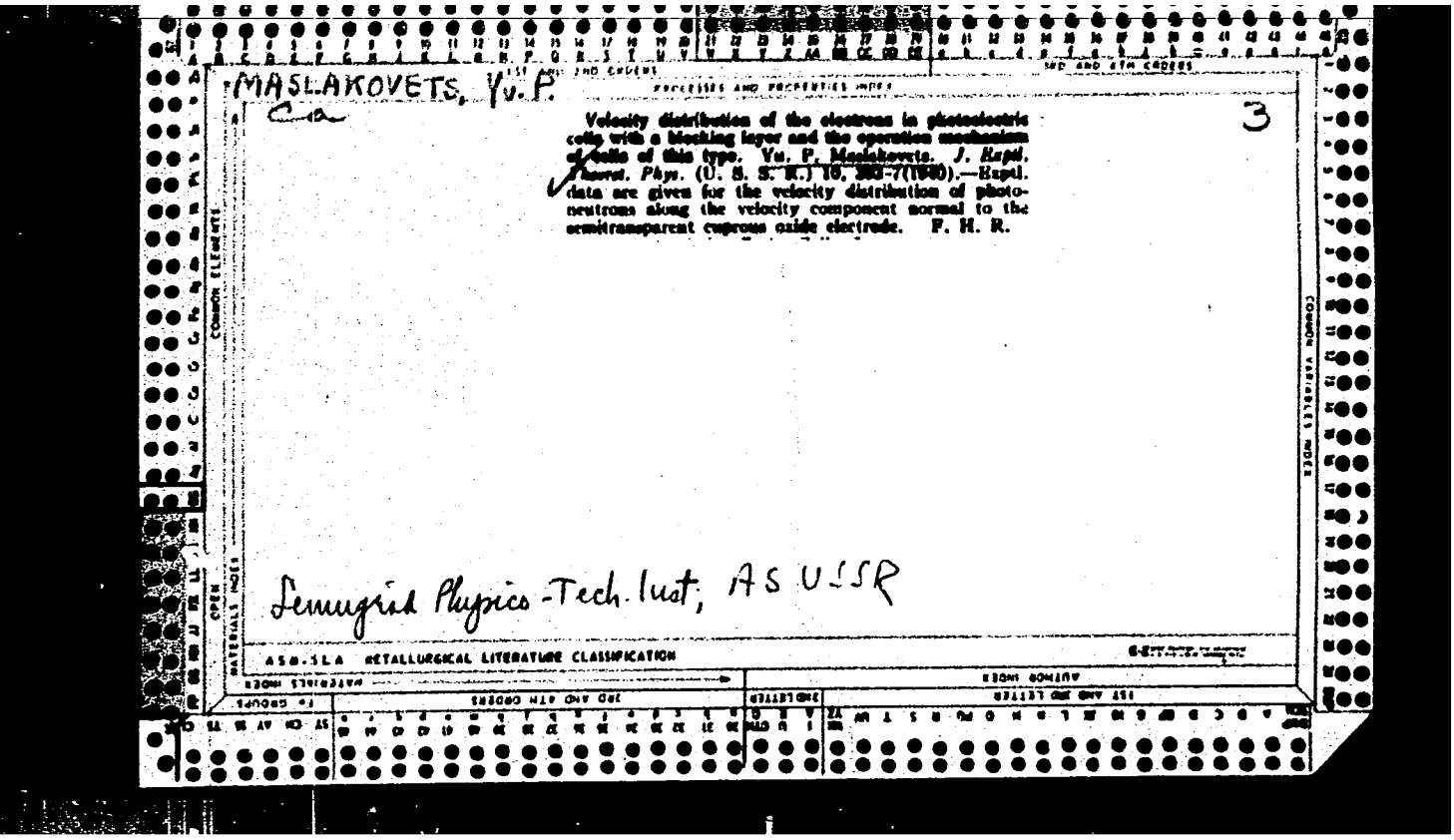

MASLAKOVETS, Yu. P.

3

Velocity distribution of the electrons in photoelectric cells with a blocking layer and the operation mechanism of cells of this type. Yu. P. Maslakovets. *J. Exptl. Theoret. Phys.* (U. S. S. R.) 10, 203-7(1940).—Exptl. data are given for the velocity distribution of photoneutrons along the velocity component normal to the semitransparent cuprous oxide electrode. F. H. R.

Leningrad Physico-Tech. Inst., AS USSR

A58-51A METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVETS, Yu.P.

Materials for the Solid State Physics

1821

537.133.3:537.311.33

The Thermoelectric Effect in Lead Sulphide.

E. D. Devyatkova, Ju. P. Maslakovets & M. S. Sominskij (*Bull. Acad. Sci. U.R.S.S., Ser. phys.*, 1941, Vol. 5, Nos. 4-5, pp. 409-416. In Russian with English summary.) Theoretical expressions are given for the dependence of thermoelectric force on the concentration of carriers of electricity. The temperature variations of electrical and thermal conductivities and of thermoelectric force are investigated in lead sulphide having electronic as well as 'hole' conductivity. The results obtained show that in lead sulphide the concentration of carriers of electricity equals 10^{18}–10^{19}. The electrical conductivity is determined mainly by the temperature variation of the mobility of the carriers.

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MASLAKOVETS, YU. P.

Dec 1946

USSR/Physics
Conductivity, Thermal
Lead Sulfide

"Measurements of Thermal Conductivity of Lead Sulphide," Yu. A. Dunayev, 4 pp

"Zhur Tekh Fiz" Vol XVI, No 10

The author presents mathematical formulae for three methods of measuring the thermal conductivity of lead sulphide. All lead samples had a good, large crystalline structure. Yu. P. Maslakovets aided in the experiments and the work was submitted at the Leningrad Phusico-Technical Institute, Acadey of Sciences of the USSR.

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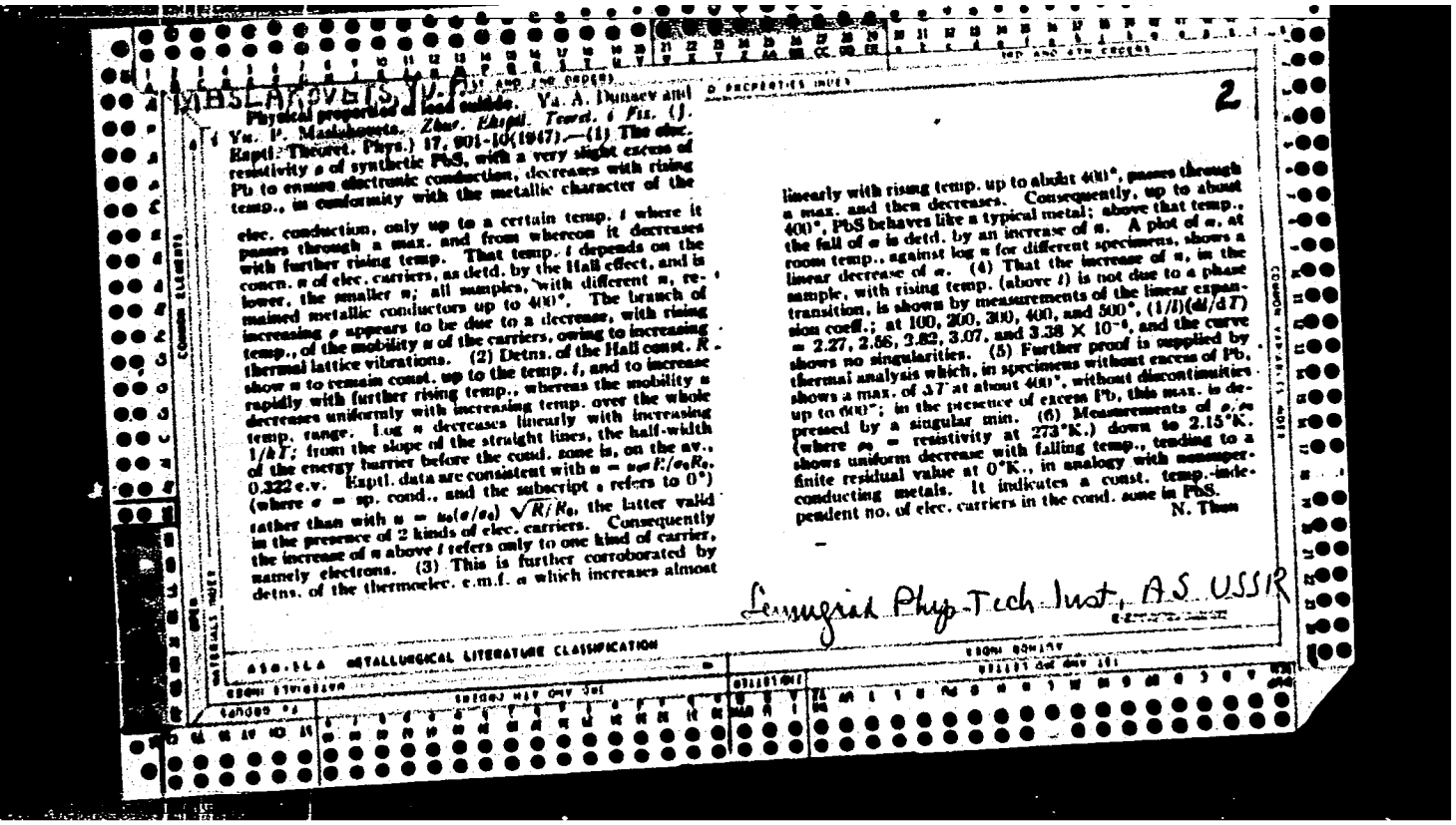

ABSTRACTS

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Physical properties of lead sulfide. Ya. A. Dunaev and Yu. P. Maslakovets. *Zhur. Eksptl. Teoret. i Fiz.* (J. Exptl. Theoret. Phys.) 17, 901-10(1947).—(1) The elec. resistivity ρ of synthetic PbS, with a very slight excess of Pb to ensure electronic conduction, decreases with rising temp., in conformity with the metallic character of the elec. conduction, only up to a certain temp. t where it passes through a max. and from whereon it decreases with further rising temp. That temp. t depends on the concn. n of elec. carriers, as detd. by the Hall effect, and is lower, the smaller n; all samples, with different n, remained metallic conductors up to 400°. The branch of increasing ρ appears to be due to a decrease, with rising temp., of the mobility u of the carriers, owing to increasing thermal lattice vibrations. (2) Detns. of the Hall const. R show n to remain const. up to the temp. t, and to increase rapidly with further rising temp., whereas the mobility u decreases uniformly with increasing temp. over the whole temp. range. Log u decreases linearly with increasing $1/kT$; from the slope of the straight lines, the half-width of the energy barrier before the cond. zone is, on the av., 0.322 e.v. Exptl. data are consistent with $u = u_0 F/\sigma_0 R_0$, (where σ = sp. cond., and the subscript 0 refers to 0°) rather than with $u = u_0(\sigma/\sigma_0)\sqrt{R/R_0}$, the latter valid in the presence of 2 kinds of elec. carriers. Consequently the increase of n above t refers only to one kind of carrier, namely electrons. (3) This is further corroborated by detns. of the thermoelec. e.m.f. α which increases almost linearly with rising temp. up to about 400°, passes through a max. and then decreases. Consequently, up to about 400°, PbS behaves like a typical metal; above that temp., the fall of σ is detd. by an increase of n. A plot of n, at room temp., against log u for different specimens, shows a linear decrease of n. (4) That the increase of n, in the sample, with rising temp. (above t) is not due to a phase transition, is shown by measurements of the linear expansion coeff.; at 100, 200, 300, 400, and 500°, $(1/l)(dl/dT)$ = 2.27, 2.66, 2.82, 3.07, and 3.38 × 10^{-6}, and the curve shows no singularities. (5) Further proof is supplied by thermal analysis which, in specimens without excess of Pb, shows a max. of 3.7° at about 400°, without discontinuities up to 600°; in the presence of excess Pb, this max. is depressed by a singular min. (6) Measurements of ρ/ρ_0 (where ρ_0 = resistivity at 273°K.) down to 2.15°K. shows uniform decrease with falling temp., tending to a finite residual value at 0°K., in analogy with nonsuperconducting metals. It indicates a const. temp.-independent no. of elec. carriers in the cond. zone in PbS.

N. Thon

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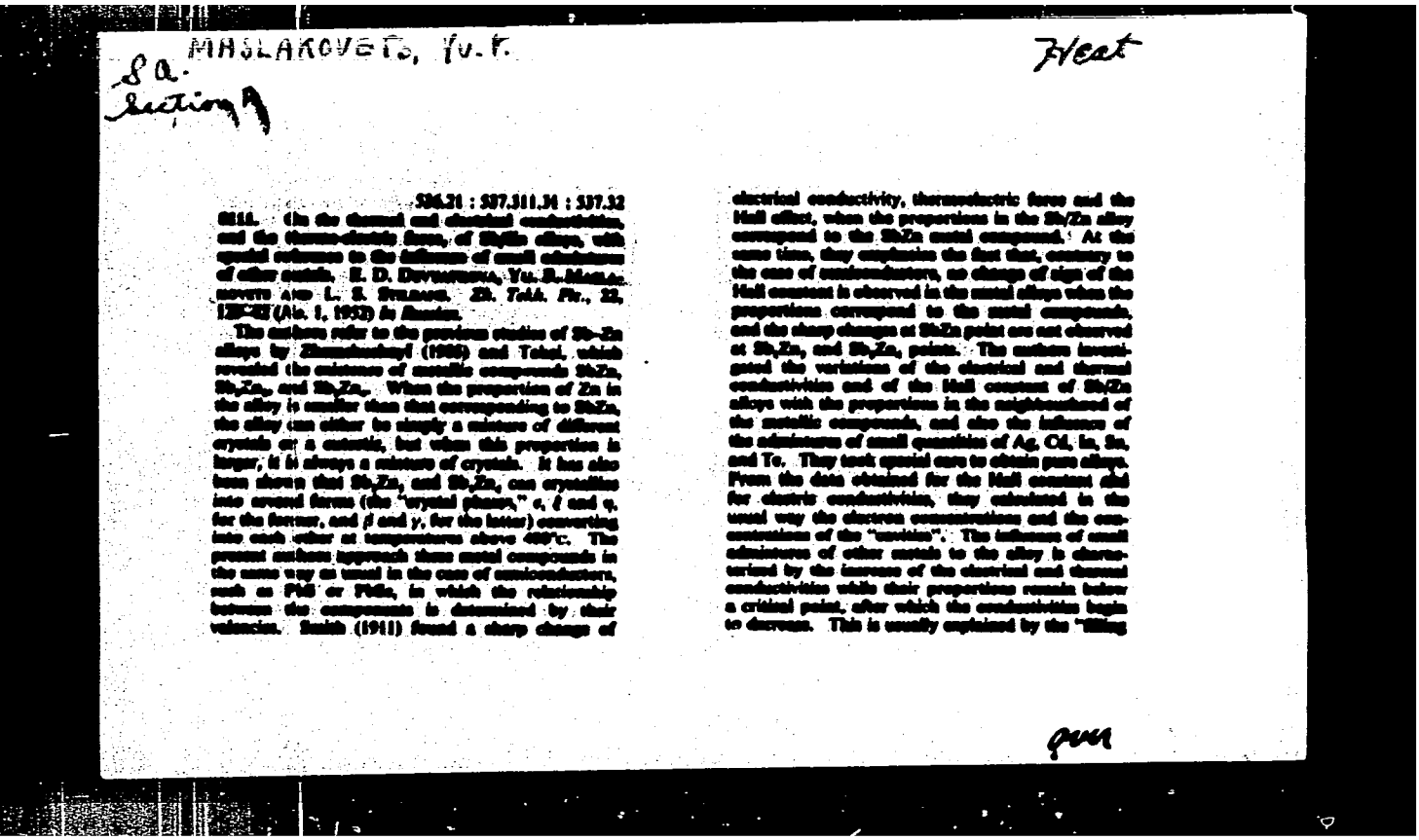

MASLAKOVETS, Yu.F.

Heat

Section 9

536.21 : 537.311.31 : 537.32

6111. On the thermal and electrical conductivities, and the thermo-electric forces, of Sb-Zn alloys, with special reference to the influence of small admixtures of other metals. E. D. Devyatkova, Yu. F. Maslakovets, Soviet Phys. and L. S. Stilbans. Zh. Tekh. Fiz., 22, 1387-1397 (Aug. 1, 1952) In Russian.

The authors refer to the previous studies of Sb-Zn alloys by Zhuzhukalov (1932) and Tokel, which revealed the existence of metallic compounds $SbZn$, Sb_3Zn_4, and Sb_2Zn_3. When the proportion of Zn in the alloy is smaller than that corresponding to $SbZn$, the alloy can either be simply a mixture of different crystals or a eutectic, but when this proportion is larger, it is always a mixture of crystals. It has also been shown that Sb_3Zn_4 and Sb_2Zn_3 can crystallize into several forms (the "crystal phases," α, β and η, for the former, and β and γ, for the latter) converting into each other at temperatures above 400°C. The present authors approach these metal compounds in the same way as usual in the case of semiconductors, such as PbS or PbSe, in which the relationship between the components is determined by their valencies. Smith (1911) found a sharp change of electrical conductivity, thermoelectric force and the Hall effect, when the properties in the Sb/Zn alloy correspond to the $SbZn$ metal compound. At the same time, they emphasize the fact that, contrary to the case of semiconductors, no change of sign of the Hall constant is observed in the metal alloys when the proportions correspond to the metal compounds, and the sharp changes at $SbZn$ point are not observed at Sb_3Zn_4 and Sb_2Zn_3 points. The authors investigated the variations of the electrical and thermal conductivities and of the Hall constant of Sb/Zn alloys with the proportions in the neighbourhood of the metallic compounds, and also the influence of the admixtures of small quantities of Ag, Cd, In, Sn, and Te. They took special care to obtain pure alloys. From the data obtained for the Hall constant and for electric conductivities, they calculated in the usual way the electron concentrations and the concentrations of the "carriers". The influence of small admixtures of other metals to the alloy is characterized by the increase of the electrical and thermal conductivities while their proportions remain below a critical point, after which the conductivities begin to decrease. This is usually explained by the "filling

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MASLAKOVETS, Yu. P.

CA

General & Physical Chemistry - 2

Temperature dependence of the mobility of the carriers of electricity in semiconductors. E. D. Devyatkova, Yu. P. Maslakovets, L. S. Stilbans, and T. S. Stavitskaya. *Doklady Akad. Nauk S.S.S.R.* 84, 681-2(1952).—In contrast to the theoretical formula for the temp. dependence of the mobility $u = AT^{-3/2}$ for solids with an at. lattice (at temps. high enough for the scattering of electrons by lattice defects to be negligible), which was verified for Si, Ge, and SbZn, the theoretical formula for solids with an ionic lattice, $u = AT^{-1/2}$ (above the Debye temp. θ), has never been verified experimentally. Measurements of the elec. cond. and the Hall effect of PbSe, between 20 and 500°, gave the expti. result $u = AT^{-6}$, entirely out of line with the theoretical formulas. By comparison of the m.ps., the heats of fusion, and the heats of formation of PbSe and PbS ($\theta \sim 80°$) it appears certain that for PbSe θ is well below 50° and, consequently, the temp. range investigated is well above θ. An analogous temp. dependence of u was found also by V. P. Zhuze, by recalcn. of the expti. data of Busch, Wieland, and Zoller (*C.A.* 45, 5998b) for gray Sn. This discrepancy makes a radical revision of the theory of interaction of electrons with the thermal lattice vibrations imperative.

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MASLAKOVETS, Yu.P.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1566
AUTHOR MASLAKOVEC,JU.P., POLTINNIKOV,S.A., DUBROVSKIJ,G.B., SUBAŠIEV,V.K.
TITLE P-Silicon Photoelectric Transformers of Solar Energy.
PERIODICAL Žurn.techn.fis,26, fasc.10, 2396-2397 (1956)
Issued: 11 / 1956

American authors produced photoelements from n-Si-monocrystals by bringing about p-n transitions in these crystals by means of diffusion from the gaseous phase of boron. In a similar manner the authors also attempted to produce the photoelement on the basis of p-silicon. This is of practical importance, because p-Si is less expensive and more easily obtainable than electron silicon. Sb served as an admixture, and diffusion was from the gaseous phase.
Foils of monocrystalline and polycrystalline p-silicon with a thickness of ~ 1 mm were used for production. After fixing the contacts, the voltampère characteristics for brightness and darkness were recorded. One of the photoelements consisted of a foil of 1 cm^2 area and was produced from monocrystalline p-silicon with ϱ = 5 ohm.cm and τ = 4 microsec. Its voltampère characteristic had well marked saturation domains in the reverse direction. These parts of the voltampère characteristics for brightness which correspond to load were nearly rectangular in shape. The spectral characteristic of this photoelement has its maximum at 700 mμ. The red boundary of sensitivity agrees well with the width of the forbidden zone in the Si.

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Zurn. techn. fis, 26, fasc. 10, 2396-2397 (1956) CARD 2 / 2 PA - 1566

Furthermore, the load characteristic on the occasion of a solar radiation of 910 watts/cm^2 was recorded and the useful coefficients for different load resistances (and consequently also for various load voltages) were computed. The maximum useful coefficient under conditions such as prevailed on this occasion was 2,8%.

On the occasion of the measuring of the useful coefficient the total incoming energy was always measured by means of a perioheliometer. The electrodes used did not afford a sufficiently low contact voltage, and therefore higher useful coefficients may be expected to be attained as a result of an improvement of contacts. The samples, which were produced from low-resistance polycrystalline silicon (several large crystals on a plate) gave less favorable results compared with those obtained by the samples described above. Their maximum useful coefficient remained below 0,6%.

It would be of great practical interest to discover a possibility of producing transformers with a useful coefficient of from ~ 1 to 2% of comparatively impure silicon (with $\varrho < 1$ ohm.cm).

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MASLAKOVETS, Yu.P.

CARD 1 / 2 PA - 1679

SUBJECT USSR / PHYSICS
AUTHOR KOVAL'CIK,T.L., MASLAKOVEC,JU.P.
TITLE The Influence exercised by Admixtures on the Electric Properties of Lead Telluride.
PERIODICAL Zurn.techn.fis,26, fasc.11, 2417-2431 (1956)
Issued: 12 / 1956

This work investigates the influence exercised by various admixtures on the character of the conductivity of a two-component compound and tries to set up rules (like in the case of germanium and silicon) for the occurrence of p- and n-conductivity. The PbTe examined had a cubic crystal lattice of the NaCl type. Measuring was carried out mainly on polycrystalline pressed samples ($20 \times 8 \times 6$ mm^3) which were annealed at 500° C or also on monocrystals. The influence exercised by the excess lead and tellurium on thermoelectromotoric force and on the conductivity of lead telluride at room temperature is shown in a diagram. In the case of stoichiometrical composition, this PbTe has the electric conductivity $\sigma = 620$ ohm^{-1}.cm^{-1} (which is caused by electrons), the thermoelectromotoric force $\alpha = -223$ microvolts/° C (with respect to lead), and the concentration $n = 3{,}5.10^{18}$ of the electricity carriers. A sufficiently great surplus of tellurium makes lead telluride a semiconductor of the p-type. A surplus of lead increases the concentration of the free electrons only slightly. The high concentration of electrons in the lead telluride produced from a crude technical tellurium is due to the influence exercised by the

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Zurn.techn.fis,26,fasc.11, 2417-2431 (1956) CARD 2 / 2 PA - 1679

admixtures in not purified tellurium. If admixtures of lead bromide, lead chloride, or lead iodide are added to the purest form of lead telluride, transition to electronic conductivity does not occur, the semiconductor remains positive. Only a sufficiently large surplus of lead makes conductivity negative. The lead at first changes the sign of electromotoric force, reduces the latter, and increases the concentration of the negative electricity carriers up to such values as correspond to the concentration of the introduced bromide. A further addition of lead causes no change of the electric conductivity of the PbTe.

Next, the influence exercised by various foreign admixtures on the properties of lead telluride is discussed. On this occasion PbO, TeO_2, $PbBr_2$, Pt, Ni, Co, Fe, Ge, Sn, Mg, Nb, Bi, Bi_2Te_3, Ag, Cu, Au and thallium are mentioned.

Discussion of results: All admixtures can be subdivided into four groups according to the character of their influence upon the sign of the conductivity of lead telluride (at room temperature): 1.) Donor-like admixtures, as e.g. Cl, Br, J, Bi, Sb, Nb. 2.) Acceptor-like admixtures, as e.g. Ag and thallium. 3.) Admixtures exercising a similar effect as a surplus of lead (Sn, Ge, Ti, Ni, Co, Fe, Pt, Mg). 4.) Admixtures which are analogous to tellurium (Se, S and O).

INSTITUTION:

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MASLAKOVETS YU. P.

IOFFE, A.F., akademik; SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R., kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., insh.; red.; ACHKINADZE, Sh.D., insh.; FREGER, D.P., tekhn.red.

[The possibilities of semiconductors and their future development] Vozmozhnosti i perspektivy poluprovodnikov. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1957. 11 p. (Poluprovodniki, no.18) (Semiconductors)

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MASLAKOVETS, Yu. P.

OSTROUMOV, Andrey Georgiyevich, inzh.; IOFFE, A.F., akademik, red.; SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R., kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Piezoelectric substances] P'ezoelektriki. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1957. 30 p. (Poluprovodniki, no.16) (MIRA 10:12)

(Piezoelectric substances)

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Nasiakovskaya I.

PASYNKOV, Vladimir Vasil'yevich, doktor tekhn.nauk; IOFFE, A.F., akademik, glavnyy red.; SOMINSKIY, kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; HEGEL', A.R., kand. fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh.; FREGER, D.P., tekhn.red.

[Nonlinear semiconductor resistors; varistors] Nelineinye poluprovodnikovye soprotivleniia; varistory. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1957. 35 p. (Poluprovodniki, no.5) (Electric resistors) (MIRA 11:1)

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MASLAKOVETS, Yu.P.

MIRLIN, David Naumovich; IOFFE, A.F., akademik, red.; SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat. nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL, A.R., kand.fiz.-mat. nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Semiconductor bolometers] Poluprovodnikovye bolometry. Leningrad, Leningr.dom nauchno-tekhn.propagandy. 1957. 36 p. (Poluprovodniki, no.4) (MIRA 10:12)

(Bolometer)

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VORONIN, Anatoliy Nikolayevich, inzh.; IOFFE, A.F., akademik, red.; SOMINSKIY, M.S., kand. fiz.-mat. nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk; red.; SMOLENSKIY, G.A., doktor fiz.-mat.nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R., kand. fiz.-mat.nauk; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh.red.; ACHKINADZE, Sh.D., inzh.; FREGER, D.P., tekhn.red.

[Semiconductor thermoelectric generators] Poluprovodnikovye termoelektrogeneratory. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1957. 43 p. (Poluprovodniki, no.13) (MIRA 11:3)
(Semiconductors) (Electric generators)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

SUBASHIYEV, Vagan Kasparovich, kand. fiz.-mat. nauk,; IOFFE, A.F., glavnyy red.; SOMINSKIY, M.S., kand. fiz.-mat. nauk, red.; MASLAKOVETS, Yu. P., doktor fiz.-mat. nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALYT, S.S., doktor fiz.-mat. nauk, red.; REGEL', A.R. kand. fiz.-mat. nauk,red.; SHAGYRIN, K.A., inzh., red.; ACHKINADZE, Sh. D., inzh., red.

[Transistor diotes and triodes; point-contact diodes and triodes] Poluprovodnikovye diody i triody; tochechnye diody i triody. Leningrad, Leningr. dom nauchno-tekhn.propagandy, 1957. 52 p. (Poluprovodniki, no. 7). (MIRA 11:11)

(Transistors)

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MASLAKOVETS, Yu. P.

SOMINSKIY, Monus Samuilovich, kand. fiz.-mat. nauk; IOFFE, A.F., akademik, glavnyy red.; MASLAKOVETS, Yu.P., doktor fiz.-mat. nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALYT, S.S., doktor fiz.-mat. nauk, red.; REGEL', A.R., kand. fiz.-mat. nauk, red.; SURAGIYEV, V.K., kand. fiz.-mat. nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D. inzh., red.; FEDOR, D.P., tekhn. red.

[Photoresistors] Fotosoprotivleniia. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1957. 54 p. (Poluprovodniki, no.6). (MIRA 11:9)
(Photoelectric cells)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

SUBASHIYEV, Vagan Kasparovich, kand. fiz.-mat nauk.; IOFFE, A.F., akad., glavnyy red.; SOMINSKIY, M.S., kand. fiz.-mat. nauk, red.; MASLAKOVETS, Yu. P., doktor fiz.-mat. nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALYT, S.S., doktor fiz.-mat. nauk, red.; REGEL', A.R., kand. fiz.-mat. nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn. red.

[Photoelectric converters of solar energy] Fotoelektricheskie preobrazovateli solnechnoi energii. Leningrad, Leningr. dom nauchno-tekhn. propagandy, 1957. 61 p. (Poluprovodniki, no. 9). (MIRA 11:12)
(Solar batteries)

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"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVETS, Yu.P.

GELLER, Isaak Khaimovich, inzh.; MESKIN, Samuil Semenovich, inzh.; IOFFE, A.F., akademik, red.; SOMINSKIY, M.S., kand.fiz.-mat.nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk; SMOLENSKIY, G.A., doktor fiz.-mat.nauk; SHALYT, S.S., doktor, fiz.-mat.nauk; REGEL', A.R., kand.fiz.-mat. nauk; SUBASHIYEV, V.K., kand.fiz.-mat.nauk; SHAGURIN, K.A., inzh.; ACHKINADZE, Sh.D., inzh., red; FREGER, D.P., tekhn.red.

[Semiconductor contact rectifiers] Poluprovodnikovye vypriamiteli. Leningrad, Leningr.dom nauchno-tekhn.propagandy, 1957. 94 p. (MIRA 10:12)

(Electric current rectifier)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

ZHUZE, Vladimir Panteleymonovich; IOFFE, A.F., akademik, glavnyy red.; SOMINSKIY, M.S., kand.fiz.-mat.-nauk, red.; MASLAKOVETS, Yu.P., doktor fiz.-mat.nauk, red.; SMOLENSKIY, G.A., doktor fiz.-mat. nauk, red.; SHALYT, S.S., doktor fiz.-mat.nauk, red.; REGEL', A.R., kand.fiz.-mat.nauk, red.; SUBASHIYEV, V.K., kand.fiz.-mat.nauk, red.; SHAGURIN, K.A., inzh., red.; ACHKINADZE, Sh.D., inzh., red.; FREGER, D.P., tekhn.red.

[Semiconducting materials (semiconductor elements)] Poluprovodnikovye materialy (elementy - poluprovodniki). Leningrad, 1957. 101 p. (Obshchestvo po rasprostraneniiu politicheskikh i nauchnykh znanii RSFSR, no.17) (MIRA 12:4)

(Semiconductors)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9"

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001032720016-9

MASLAKOVETS, Yu. P.

AUTHORS: Lomakina, G. A., Vodakov, Yu. A., Naumov, G. P., Maslakovets, Yu. P. 57-27-7-26/40

TITLE: A Valve Photocell of Cadmium Telluride. (A Preliminary Report) (Ventil'nyy fotoelement iz tellurida kadmiya. (Predvaritel'noye soobshcheniye)).

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1957, Vol. 27, Nr 7, p. 1594 (USSR)

ABSTRACT: For the production of p-n transitions n-type plates of CdTe with an area of 1 to 2 qcm consisting of several (3 to 5) crystals were used. Their specific conductivity was

$$\sigma \approx 40 \text{ Ohm}^{-1} \cdot \text{cm}^{-1}, \text{ thermal-EMK } \alpha \simeq 200 \ \mu\text{V/}$$

degree. The width of the forbidden zone was 1,34 eV. The thin p-layer was formed by means of thermal diffusion of elements of the first group of the periodic law. The ohmic contact on the n-layer was obtained by melting of indium and on the p-layer by melting of gold. The p-n transitions obtained in this manner were very "directed" with a distinctly marked saturation in the inverse direction. In sunlight with 30 mW/qcm the photo-EMK of this photoelectric

Card 1/2

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